Roof Wind Pressures for Positive & Negative Internal Pressure (+/- GCPi) - Parallel All wind pressures include a load factor of 0.6

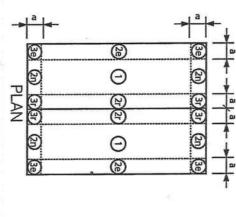
Roof Var Cp_min Cp_max GCPi Pressure Pressure Pressure Pressure

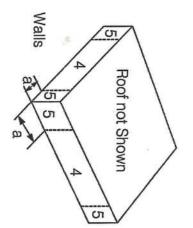
		ft	ft				Pn_min*	Pp_min* psf	Pn_max psf	Pp_max psf
~ 1			n 1	0 1 0 1		1 0 1		1	1 0	1
		0.000	6.500	-0.180		0.180	0.34	-4.22	-7.42	-11.98
		0.000	6.500	-0.180		0.180	0.34	-4.22	-7.42	-11.98
		6.500	13.000	-0.180		0.180	0.34	-4.22	-7.42	-11.98
		6.500	13.000	-0.180		0.180	0.34	-4.22	-7.42	-11.98
		13.000	26.000	-0.180		0.180	0.34	-4.22	-3.11	-7.67
Roof (-	(Y-Y)	13.000	26.000	-0.180	-0.500	0.180	0.34	-4.22	-3.11	-7.67
		26.000	66.000	-0.180		0.180	0.34	-4.22	-0.95	-5.52
	-	26.000	66.000	-0.180		0.180	0.34	-4.22	-0.95	-5.52

Pp_min* = q OH = Overhang Notes Roof Pressures: Dist = Start Dist from Windward Edge
x = Largest Coefficient Magnitude
x = qh*G*Cp_max - qip*(+GCPi)
n* = qh*G*Cp_min - qip*(+GCPi) Overhang X = Dir along Ridge smaller uplift pressures due to

Pressures Acting TOWARD Surface o Cp_Min can become critical when wind is combined load combinations are given in ASCE 7 - Pressures Acting AWAY from

Components and Cladding (C&C) Calculations per Ch 30 Part 1:





2 2 2 2 2
BUILDING CODE 2020 7TH EDITION
IN ACCORD WITH THE REQUIREMENTS OF THE FLORIDA
1. THIS RESIDENCE SHALL BE CONSTRUCTED

2. ALL CEILING SHEETROCK SHALL BE MIN 5/8"

3- SEPERATION BETWEEN GARAGE SHALL BE 5/8" SHEETROCK MIN.

4- DOOR SEPERATION GARAGE FROM LIVING AREA SHALL BE 1/2 HR FIRE RATED 1/2 HR

5- ALL AREAS EXCEPT WHERE GFI RECEPTICALS ARE REQUIRED

6- ELECTRICAL DESIGN BY ELECTRICAL CONTRACTOR.
7- CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR RECEPTICALS SHALL BE ARC FAULT

8- SMOKE DETECTORS SHALL BE WIRED TO ALARM SIMUTANIOUS WITH BATTERY BACKUP. TO BEGINNING.

1-All construction shall comply with Florida Building Code 8th edition 2023.

NOMINAL WIND SPEED: 108 ULTIMATE WIND SPEED: 130 WIND EXPOSURE CATEGORY:

SHEARWALLS 30-0" TRANSVERSE 100'-0" LONGITUDINAL

DRISCOLL ENGINEERING, INC. CONSULTING ENGINEER
PO BOX 357577 PH (352) 331-1513
FX (352) 505-3368

RISK CATEGORY II INTERNAL PRESSURE COEFFICIENT Gcpi= +/- 0.18

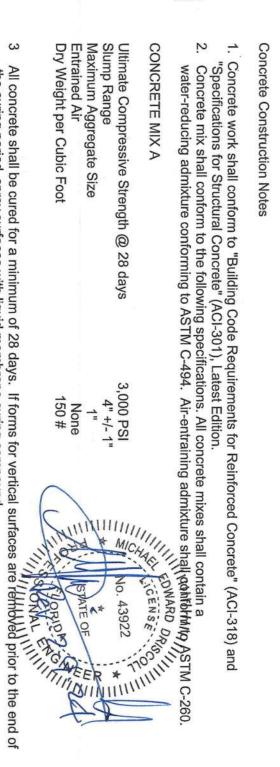
ROOF DEAD LOAD = 7.5 PSF ROOF LIVE LOAD =20 PSF FLOOR LIVE LOAD 40 PSF DESIGN PRESSURE PER FBC CHAPTER 16, INCLUDING ASCE 7-22 LOAD CALCULATIONS

MIN SOIL BEARING 2500 PSF TRUSS BEARING LOAD EACH END 5400LB

TRUSS UPLIFT @ POST 3600LBS

Wood framing and fasteners to meet NDS-2018 requirements.

Fastener requirements: (1) All nails are Common galvanized; (2) all bolts are to be galvanized steel and include nuts and washers; and (3) all other hardware (Simpson, etc.) is to be installed according to manufacturer's specifications and recommendations. Nailing (size and number) shall satisfy Tables 2306.2.(1), 2306.3.(1) and 2306.3.(#) FBC unless otherwise indicated. Note: fasteners exposed to the weather are to be treated for weather resistance and compatible with the type of pressure treated wood used (connectors, nails, bolts, nuts and washers).



the curing period, spray surfaces with liquid membrane curing compound.

4. Reinforcing steel shall conform to ASTM A615, Grade 40 (Fy=40 ksi). Lap continuous bars for tension lap splice corner bars of same size and spacing as horizontal wall reinforcement. Cover for concrete reinforcing steel shall be per ACI-318, unless otherwise noted. Provide

5 Welded wire fabric (WWF) shall conform to ASTM A185. Lap sheets two mesh spaces and wire tie adjacent sheets in accordance with ACI-318, Paragraph 7.7.

7.6 together securely. Cut alternate reinforcement at control joints.

Electrical conduit and other pipes to be embedded in structural concrete floor slabs or walls shall be placed in accordance All slabs on grade shall have construction or control joints not to exceed 10' - 0" spacing, unless otherwise noted. with the requirements of ACI-318, Paragraph 6.3.

BARN AREA LIVING AREA LOUNGE AREA 3500 4900 490 00 000

> Michael E Driscoll PE FL Reg #43922 11-16-23 rev: 2-8-24

COPELAND 134 SW SEDGEFIELD FARMS GLEN FT WHITE, FL. DB23-793

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